LHR-I-21

(T	o	be	fil	lled	in	by	the	candi	date	

(Academic Sessions 2017 - 2019 to 2019 - 2021)

BIOLOGY

Q.PAPER - II (Objective Type)

221-(INTER PART - II)

GROUP – II

Time Allowed: 20 Minutes

Maximum Marks: 17

PAPER CODE = 8464

Note: Four possible answers A, B, C and D to each question are given. The choice which you think is correct, fill that circle in front of that question with Marker or Pen ink in the answer-book. Cutting or filling two or more circles will result in zero mark in that question

	The first energy will result in Zero mark in that question.
1-1	The part of the brain which is best developed in birds:
	(A) Cerebellum (B) Medulla (C) Hippocampus (D) Pons
2	If the centromere is located in the middle of the chromosome it is called:
	(A) Metacentric (B) Sub metacentric (C) Telocentric (D) Acrocentric
3	The actual remains or traces of organisms that lived in the ancient geological times are called:
	(A) Analogous organs (B) Homologous organs
4	(C) Vestigial organs (D) Fossils The rain fall less than 25 to 50 cm is found in:
7	
5	(A) Desert (B) Grassland (C) Temperate deciduous forest (D) Tropical rain forest The blood passing through glomerulus is filtered into:
3	(1) P
6	(A) Bowman's capsule (B) Ureter (C) Bladder (D) Urethra The Ginkgo plant is:
Ü	//> N/ - !
7	(A) Monoecious (B) Dioecious (C) Triecious (D) Polyecious In plant cell turgor pressure is generated by :
	(A) C !! !! (T) C !!
8	(A) Cell wall (B) Cell membrane (C) Mitochondria (D) Vacuole XYY condition is found in :
9	(A) Patau (B) Edward (C) Turner (D) Jacobs In Pakistan grassland ecosystem is found in:
	(A) Kara Koram (B) Shogran (C) Malam Jabba (D) North Kallat
10	In the development of chick the 24 hours embryo is called:
	(A) Morulla (B) Gastrula (C) Blastula (D) Neurula
11	The hormone which actively transport water from filtrate in collecting tubules back to
	kidney is:
	(A) Aldosterone (B) ADH (C) Testosteron (D) Oxytocine
12	Healing of fracture and repair of the skin wound is example of:
- 10	(A) Meiosis (B) Regeneration (C) Development (D) Necrosis
13	The follicle cells after release of the egg are modified to form special structure called:
1.4	(A) Follicle atresia (B) Corpus luteum (C) Uterus (D) Placenta
14	The stage which may lasts for days, weeks or even years is:
1.5	(A) Leptotene (B) Zygotene (C) Pachytene (D) Diplotene
15	Which one of the following is a facial bone:
1.0	(A) Frontal (B) Occipital (C) Vomer (D) Sternum
16	The patients lack a gene that code for trans-membrane carrier of the chloride ions:
17	(A) Cancer (B) ADA (C) SCID (D) Cystic fibrosis
17	Which of the following is biotic factor:
	(A) Topography (B) Gravity (C) Soil energy (D) Decomposers

229-221-II-(Objective Type)- 5000 (8464)

LHR-X-21

		No (To be filled in by the candidate)	
		(Academic Sessions 2017 – 2019 to 2019 – 2021)	
		LOGY 221-(INTER PART – II) Time Allowed: 2.40 he	ours
	PAP	ER – II (Essay Type) GROUP – II Maximum Marks: 68	
		SECTION – I	
	2. V	Vrite short answers to any EIGHT (8) questions:	16
	((i) Differentiate between osmoconformers and osmoregulators.	
	(i	ii) Define uremia. What is its permanent treatment?	
		ii) Define pyrexia and pyrogens.	
		v) Define Herniation of disc. How is it treated?	
		v) Differentiate between bone and cartilage.	
		i) Give two modifications in the exoskeleton of arthropods.	
		i) What is seed dormancy? Write its significance.	
		i) Write the functions of sertoli cells and interstitial cells.	
	(1X	Characterize limnetic zone and profundal zone of fresh water lake. Write down the name of two dominant plants and two dominant animals of	
	(^	temperate deciduous forest.	
4.	(xi	i) What is nutrient cycle? What is driving force behind these cycles?	
		i) Write four effects of removal of forests.	
3		rite short answers to any EIGHT (8) questions:	16
) What condition result due to hypo and hyper function of cortical hormones?	10
		Write the actions of nicotine on nervous and circulatory system.	
		Define imprinting with the example of precocial birds.	
) Differentiate between X-linked dominant and X-linked recessive traits.	
		Define monohybrids and dihybrids.	
		Define linkage. Enlist linkage groups of chromosome no. 11 and 23.	
	(vii)) What do you know about palindromic sequence? Give an example.	
		What are protoplasts? Give scientific name of biodegradable plastic.	
		Give the process of coronary artery angioplasty briefly, using biotechnology.	
		Differentiate between food chain and food web.	
		Define ammonification and nitrification.	
		State parasitism and its significance.	
4.		rite short answers to any SIX (6) questions:	12
		Define apical meristem.	
		What is inhibitory effect?	
	(iii)		
	(iv)		
	(v)		
	(vi) (vii)		
		How genetic drift effect gene frequency?	
	(ix)		
	(1.1)		
		SECTION – II	
N	ote :	Attempt any THREE questions.	
5.		Explain the structure of nephron.	4
	(b)	Describe predation and parasitism with their significance.	4
6.	(a)	Write a note on sclerenchyma cells and collenchyma cells.	4
		Explain Watson and Crick Model of DNA.	4
7.	(a)	What is resting membrane potential? How is resting membrane potential maintained	
	, ,	across neurolema?	4
	(b)	Describe the importance of forests.	4
8		Describe fruit set and fruit ripening in angiosperms.	4
		What is X-linked recessive inheritance? Explain it with an example.	4
Q		Describe various types of meristems.	
1.		How did eukaryotes evolve from prokaryotes?	4
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